

LISTING OF CLAIMS:

B1 1. (Amended) A damping structure having an internal cavity (2) and comprising:

a member defining an internal cavity;

an aggregate (8) which comprises at least solid bodies (9) in contact and which completely fills said internal cavity (2);  
and

a rigid plate (11) for closing off said internal cavity (2),  
~~characterized in that it additionally comprises; and~~

an elastic means (12) which exerts elastic pressure on said rigid plate (11) so as to constrain said aggregate (8).

2. (Amended) The damping structure as claimed in claim 1,  
~~characterized in that wherein said structure (1) member is~~  
elongate and ~~in that~~ said internal cavity (2) is formed  
longitudinally inside said elongate structure (1) member.

3. (Amended) The damping structure as claimed in claim 1,  
~~characterized in that wherein~~ at least some of said solid bodies  
(9) are hollow.

c1) 4. (Amended) The damping structure as claimed in claim 1,  
~~characterized in that wherein~~ at least some of said solid bodies  
(9) are compact.

5. (Amended) The damping structure as claimed in claim 1,  
~~characterized in that wherein~~ said aggregate (8) comprises solid  
bodies (9A, 9B) made of different materials.

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6. (Amended) The damping structure as claimed in claim 1,  
~~characterized in that wherein~~ said aggregate (8) comprises solid  
bodies (9C, 9D, 9E, 9F) of different shapes.

7. (Amended) The damping structure as claimed in claim 1,  
~~characterized in that wherein~~ said aggregate (8) comprises solid  
bodies (9C, 9D, 9E, 9F) of different sizes.

8-11. (Withdrawn from consideration).

~~12. (Amended) The damping structure as claimed in claim 1,  
characterized in that wherein said aggregate (8) additionally  
comprises a viscous liquid filling the spaces between said solid  
bodies (9).~~

13-14. (Withdrawn from consideration).

15. (Amended) The damping structure as claimed in claim 14, ~~characterized in that it additionally comprises~~ further comprising an elastic means (12) which exerts elastic pressure on said rigid plate (11) so as to constrain said aggregate (8).

16-25. (Withdrawn from consideration).

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26. (Amended) A damping structure with ~~an internal cavity~~ (2) and comprising:

a member defining an internal cavity;

an aggregate (8) which comprises at least solid bodies (9) in contact and which completely fills said internal cavity (2);  
and

means (10) for closing off the internal cavity (2) and pressing said aggregate (8) into said internal cavity (2), characterized in that it is rigid.

27-37. (Withdrawn from consideration).

38. (Amended) The damping structure as claimed in claim 26, ~~characterized in that~~ wherein said means (10) for closing off

said internal cavity (2) comprise a rigid plate (11) which is constrained by an elastic element (12).

39. (Withdrawn from consideration).

40. (Amended) A suspension system for a rotary wing aircraft, particularly a helicopter, gearbox, said suspension system comprising:

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a number of suspension bars (15), characterized in that wherein at least one of said suspension bars (15) comprises a damping structure (1) with an internal cavity (2) and comprising:

a member defining an internal cavity;

an aggregate (8) which comprises at least solid bodies (9) in contact and which completely fills said internal cavity (2); and

a rigid plate (11) for closing off said internal cavity (2).

41. (Amended) The suspension system as claimed in claim 40, characterized in that wherein at least one of said suspension bars (15) comprises a damping structure (1) as specified in claim 1.

42. (Amended) A device for damping the vibrations of a vibrating component mounted on a support, ~~characterized in that it comprises further comprising~~ a damping structure (1) as specified in claim 1, which is arranged between said vibrating component (BTP) and said support (17).

43. (Amended) A device for damping the vibrations of a vibrating component comprising at least one hollow element, ~~characterized in that wherein~~ said hollow element (15) is produced in the form of a damping structure (1) as specified in claim 1.

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44. (New) A suspension system for a rotary wing aircraft gearbox, said suspension system comprising a number of suspension bars and at least one of said suspension bars comprising a damping structure including:

a member defining an internal cavity;

an aggregate, which comprises at least solid bodies in contact, that completely fills said internal cavity;

a rigid plate for closing off said internal cavity; and

an elastic device that exerts elastic pressure on said rigid plate so as to constrain said aggregate.